

Title Computer networks	Code 1010332411010330675
Field Computer Science	Year / Semester 1 / 1
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: 1	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

obligatory

Assumptions and objectives of the course:

The primary objectives of the course are: to make the students familiar with network technology, and to acquire the practical skills in using the technology.

Contents of the course (course description):

Lectures

IPv6, including: addressing, options, header format, implementation perspectives and problems.
Multicasting, including: IGMP, RPF method, multicast routing protocols PIM, DVRMP, MOSPF.
Optimization in computer networks with a use of hardware support for transport and internetwork protocols, including: TSO, TOE methods. WWW optimization, including: proxy servers, protocols ICP, CARP, WCCP, CDN.

Project

Developing and implementation of communication protocol for a given tasks (e.g. related to multimedia transmission in real time).

Introductory courses and the required pre-knowledge:

computer networks (lectures from previous semesters)

Courses form and teaching methods:

Lecture with multimedia presentation, laboratory, project

Form and terms of complete the course - requirements and assessment methods:

tests, project assesment, laboratory assesment

Basic Bibliography:

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Additional Bibliography:

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